IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with underlining and deleted text with ~~strikethrough~~.

Please REPLACE the paragraph beginning at page 6, line 10, with the following paragraph:

FIG. 1A shows a sync detection result at the innermost circumference when 2T appear before and after a pattern having the form of 9T-9T. FIG. 1B shows a sync detection result at the ~~innermost~~ outermost circumference according to a clock rate when the 2T appear before and after the pattern of 9T-9T shown in FIG. 1A. FIG. 1B shows that the longest T pattern, i.e., 9T, is detected to be longer due to the appearance of the 2T pattern.

Please REPLACE the paragraph beginning at page 6, line 16, with the following paragraph:

FIG. 2A shows a sync detection result at the innermost circumference when 4T appear before and after the pattern of 9T-9T shown in FIG. 1A. FIG. 2B shows a sync detection result at the ~~innermost~~ outermost circumference according to a clock rate when 4T appear before and after the pattern of 9T-9T. FIG. 2B shows that frequency information regarding the longest T pattern, i.e., the pattern of 9T-9T, is appropriately expressed when 4T appear adjacent to the longest T pattern, i.e., the pattern adjacent to 9T. In other words, if the radius of the innermost circumference is 6mm and the radius of the outermost circumference is 22.5mm, a phase locked loop (PLL) clock is properly generated both at the innermost and outermost circumferences using a sync code where a pattern next to the longest T pattern is 4T.

Please REPLACE the paragraph beginning at page 14, line 11, with the following paragraph:

An aspect of the present invention is embodied as a computer readable code in a computer-readable medium. Here, the computer-readable medium is any recording apparatus capable of storing data that is read by a computer system, e.g., a read-only memory (ROM), a random access memory (RAM), a compact disc (CD)-ROM, a magnetic tape, a floppy disk, an optical data storage device, and so on. Also, the computer-readable medium may be ~~a carrier~~

~~wave that transmits data via the Internet, for example~~a computer data signal embodied in a carrier wave comprising a compression source code segment and an encryption source code segment (such as data transmission through the Internet). The computer-readable recording medium is distributed among computer systems that are interconnected through a network, and an aspect of the present invention is stored and implemented as a computer readable code in the distributed system.